

# 2024 MoDOT TSMO Update

Alex Wassman Traffic Management & Operations Engineer Missouri DOT

### **TSMO Structure**



Existing MoDOT Teams and Groups	New Teams			
TIM Coordinators Group	Advancing Technology (AT)	TSMO Steering		тѕмо
TIM Statewide Subcommittee Traffic Management Centers Group Traffic Signal QC	TSMO Education and Outreach	Committee Central Office Coordinators Team Liaisons	TSMO Central Office Coordinators	Board of Directors Senior Leadership Team Members
Work Zone QC	Other Teams As Needed			

### **Current Objectives**



- Advance work zone safety
- Statewide standards and specifications for ITS
- Advance the use and benefits of data and analytics
- Develop a library of technical resources

## **Current Objectives**



- Continue to prepare for and advance CAV in Missouri
- Education and outreach of TSMO benefits
- Develop additional regional TIM coalitions
- Develop a library of technical resources

### **TSMO Outreach**



AN https://www.modot.org 1 岛 3 888 - ASK MODOT (275-6636) EMAIL / TEXT UPDATES CONTACT US TRANSLATE 0) .... X Missouri Department of Transportation MODOT Q Search **Doing Business With MoDOT** Local Travelers **Road Work** Programs Motor Carriers News About Careers As Built Plans Local Public Agency (LPA) Value Engineering Contractor Resources **Online Payments** Standards & Specifications Become a MoDOT Vendor **Design-Build Information** Maps **Online Plans Room** Surplus Equipment and Auctions MRCC Directory **Outdoor Advertising Bidding Opportunities Electronic Signatures TSMO Strategies Bridge Standard Drawings Engineering Policy Guide** MoDOT Realty for Sale Small Business Regulatory Fairness Board **Utility Resources** Consultant Resources File a Claim Permits **Doing Business With MoDOT** Careers out Standards & Specifications Value Engineering Surplus Equipment and Auctions **TSMO Strategies** Utility Resources

## **TSMO Examples**



https://www.modot.org/tsmo-success-stories

#### **TSMO Success Stories**

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#### **Innovative Interchange Design**

An innovative design can go a long way when it comes to improving traffic flow and increasing safety. In this video, St. Louis District Transportation Project Manager Lisa Kuntz, Transportation Project Designer Dan Savageau and Traffic Operations Engineer Eddie Watkins discuss how innovative roadway design and construction are helping to alleviate traffic congestion on the Route 141/Route 364 interchange and how these improvements are leading to safer travel in the

#### **Smart Work Zones**

Smart work zones keep traffic moving as safely and efficiently as possible. Traffic Management and Operations Engineer Dan Smith discusses smart work zones what they are and why they are used. Improve I-70 Program Director Eric Kopinski details how smart work zones will be used in the first stretch of the Improve I-70 project from Columbia to Kingdom City.

area.

## Work Zone Data Exchange



**DOT DataHub** Transportation.gov U.S. Department of Transportation

#### Work Zone Data Exchange (WZDx) Feed Registry

Roadways And Bridges

T state At :	T issuingOrganization issuingorganization	T feedName	e url	
iowa	lowa DOT	idot	https://iowa-atms.cloud-q-free.com/ap	ç
nps	National Park Service	nps	https://www.nps.gov/external-resource	ç
florida	Florida DOT	fldot	https://us-datacloud.one.network/fdot/	ç
minnesota	Minnesota DOT	mndot	https://mn.carsprogram.org/carsapi_v	ç
texas	Texas DOT	txdot_v4	http://txdot-its-c2c.txdot.gov/WZDx/4.1	ç
california	Metropolitan Transportation Commissi	mtc	https://api.511.org/traffic/wzdx?api_ke	ç
maryland	Maryland DOT	mdot	https://filter.ritis.org/wzdx_v4.1/mdot	ç
arizona	Maricopa County DOT	medot	https://arisapp01.mcdot-its.com/wzdx	4
missouri	Missouri DOT	modot	https://traveler.modot.org/timconfig/fe	

# **TSMO Resources**



Work Zone Impact Analysis Spreadsheet 616.13 Work Zone Capacity, Queue and Travel Delay

	DOT WORK ZC		
Revised: 2/25/22			
Remember to ENABLE CONTENT	so the macros inside the excel sheet c	an run.	
Select Volume Input Method using	the BUTTONS below.		
Import TSHV Data	Enter Volume Data Manually	Include Advanced Work Zone Strategies	Include Contract Time Acceleration Strategies
		Yes	Yes
Use the <b>TABS</b> to navigate through	the spreadsheet after selecting Input Me	ethod.	
Enter information into the HIGHLIG	HTED cells.		
	on needed regarding the Base Condition	S	
	on needed regarding the Work Zone		
	s. Leave these BLANK if you want to us	se the spreadsheets defaults.	
GREEN cells are based on imp	oned ISHV data		

# **TSMO Resources**



#### Work Zone Impact Analysis Spreadsheet 616.13 Work Zone Capacity, Queue and Travel Delay

			Budgetary
Score*	Rank	Recommendation	Estimate
80	3	Strongly Recommended	\$40,000
72	4	Strongly Recommended	\$50,000
48	5	Should be Considered	\$10,000
0	-	Not Applicable	\$0
88	2	Strongly Recommended	\$43,000
100	1	Strongly Recommended	\$2,000
0	-	Not Applicable	\$0
29	6	Not Recommended	\$48,000
0	-	Not Applicable	\$0
	80 72 48 0 88 100 0 29	80 3   72 4   48 5   0 -   88 2   100 1   0 -   29 6	803Strongly Recommended724Strongly Recommended485Should be Considered0-Not Applicable882Strongly Recommended1001Strongly Recommended0-Not Applicable296Not Recommended

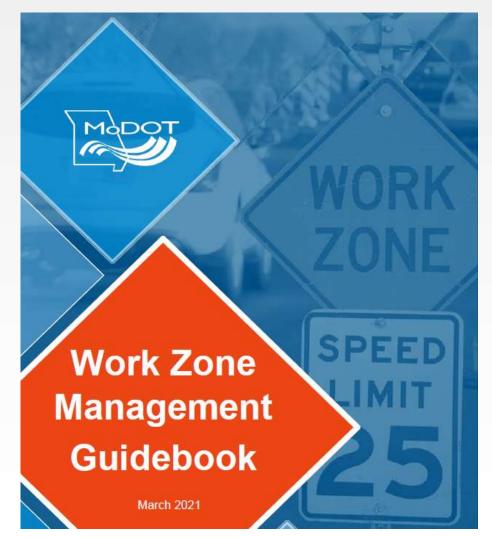
Contract Time Acceleration Strategy	Score**	Rank	Recommendation
A+B Bidding	29	4	Not Recommended
Liquidated Damages Specified	85	1	Strongly Recommended
Liquidated Savings Specified	67	3	Should be Considered
Liquidated Savings / Liquidated Damages Specified	75	2	Strongly Recommended

#### **TSMO Resources**



#### Work Zone Management Guidebook

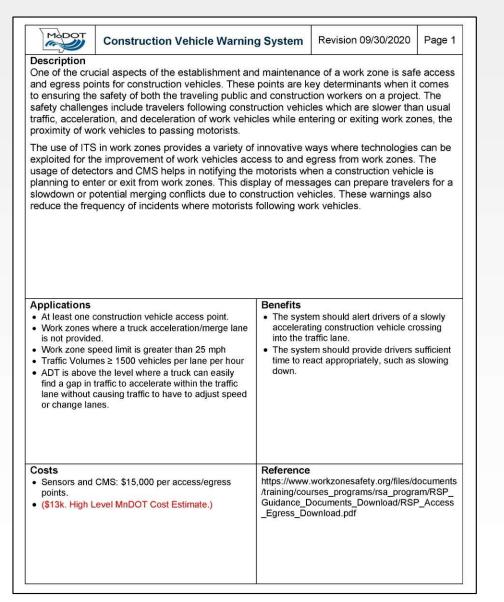
EPG 909: Transportation Systems Management and Operations (TSMO)

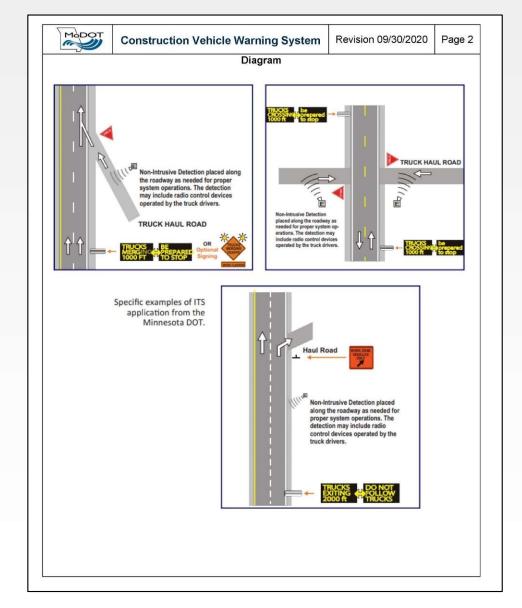


#### TSMO Resources Work Zone Management Guidebook



EPG 909: Transportation Systems Management and Operations (TSMO)





#### **Contact for Questions**



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